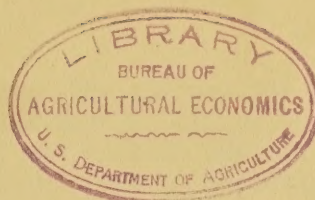


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Cooperative Extension Work in Agriculture and Home Economics

U. S. Department of Agriculture
and State Agricultural Colleges
CooperatingExtension Service, Office of
Cooperative Extension Work,
Washington, D. C.EXAMPLES OF DATA OBTAINED FROM ENTERPRISE-EFFICIENCY
STUDIES IN CALIFORNIA

Note:- Information from enterprise-analysis studies supplied
by the California Agricultural Extension Service,
Berkeley, California.

REQUIREMENTS FOR SUCCESSFUL PROGRAMS

The most essential requirement for success for farm-management extension work is a continuity of effort on well defined projects. In establishing and working out the program, the following measures should be used in deciding the various activities to be undertaken.

1. Is the subject of widespread interest?
2. Is the subject timely?
3. Does the organization of the project involve the active participation of the county agent?
4. Does the project involve the active participation of the community and of the cooperators?
5. Is the subject matter of immediate application?
6. Will the application of subject matter increase production per unit of area or per man, improve quality of product, reduce costs, or in some other manner increase the income of the individual farmer.

SONOMA COUNTY, CALIFORNIA, POULTRY STUDY
1925-1927-1928-1929

Table 1

	Average 1925	Average 1927	Average 1928	Average 1929
Number of flocks-----	38	52	51	46
Total hens-----	62,738	119,184	130,277	122,908
Average size of flocks-----	1,651	2,292	2,554	2,672
Eggs per hen-----	130.7	130.0	137.4	140.7
Per cent production-----	37.8	35.6	37.5	38.5
Per cent mortality-----	20.1	28.0	26.8	26.0
Culling per cent-----	28.7	32.0	33.0	39.0
Per cent needed to replace hens died and sold-----	44.8	56.0	60.0	62.0
Actual per cent added-----	45.7	50.0	65.8	65.5
Per cent pullets-----	41.0	46.0	38.8	28.8
Average price received for marketing eggs-----	36.4¢	28.5¢	29.8¢	32.3¢
Average price received for hatching eggs-----	59.9¢	51.0¢	44.9¢	42.3¢
Per cent market eggs-----	91.6	91.4	95.6	94.8
Per cent hatching eggs-----	8.4	8.6	4.4	5.2
Per cent No. 1 eggs-----	74.3	73.5	75.3	76.9
Price for cull hens-----	62.6¢		55.7¢	69.6¢
Price feed per hundredweight-----	\$ 2.90	\$ 2.45	\$ 2.49	\$ 2.37
Feed cost per hen-----	2.10	2.04	2.12	2.09
Labor cost per hen-----	.74	.70	.60	.53
Total cost per hen-----	3.89	3.72	3.56	3.50
Gross income per hen-----	4.39	3.77	3.98	4.32
Net profit per hen-----	.50	.05	.42	.82
Labor income per hen-----	1.10	.60	.90	1.26
Farm income per hen-----	1.37	.89	1.14	1.49
Total cost per dozen (cents)-----	33.9	33.9	31.1	29.9
Gross income per dozen "	38.3	34.5	34.7	36.9
Net profit per dozen "	4.4	.5	3.6	7.0
Labor income per dozen "	9.6	5.5	7.9	10.7
Farm income per dozen "	12.0	8.2	10.0	12.7

Note:- Tables 1 to 6 are taken from the fourth annual summary of the poultry-management study, Sonoma County, California, November 1, 1928, to
5701 October 31, 1929.

SONOMA COUNTY, CALIFORNIA, POULTRY STUDY
1929

Table 2

	High Farm	Low Farm	Average of:	My
	Income	Income	All Flocks	Flock
Farm income per hen-----	\$ 2.60	\$ 1.01	\$ 1.49	\$
Number of records-----	10	10	46	
Total number of hens-----	12,572	49,028	122,908	
Average number of hens per flock-----	1,257	4,903	2,672	
Total income per flock-----	\$7111.07	\$18847.54	\$11455.76	
Total cost per flock-----	4962.45	15987.07	9200.34	
Net profit per flock-----	2148.62	2860.47	2192.45	
Labor income per flock-----	2926.02	4025.91	3366.24	
Farm income per flock-----	3265.10	4965.84	3978.68	
Number eggs per hen for the year-----	176.9	127.7	140.7	
Per cent production-----	48.5	35.0	38.5	
Number eggs per hen from September to December, inclusive-----	43.3	29.2	32.5	
Per cent of all eggs laid from September to December, inclusive-----	24.5	22.9	23.7	
Per cent mortality-----	21.2	26.0	26.0	
Per cent culled-----	38.6	47.8	39.0	
Per cent needed to replace hens died and sold-----	61.4	72.9	62.0	
Actual per cent added-----	83.5	64.3	65.5	
Per cent pullets-----	54.2	11.4	28.8	
Type of house-----	7S. 3G	2S. 6G:18S-2SM	26G	
Per cent of houses with hard floors---	90	88	84	
Floor space per hen sq. ft.-----	2.5	8.3	2.4	
Per cent using lights-----	70	100	89	
Average price for cull hens-----	76.3¢	68.2¢	69.6¢	
Hours of labor per hen-----	1.6	1.0	1.3	
Rate earned per hour by owner-----	1.53	1.37	1.15	

THE NATIONAL BUREAU OF STANDARDS

1911

STANDARD GRADES OF PURE SUBSTANCES			
Grade	Symbol	Weight	Volume
1	10.1	10.1	10.1
2	10.2	10.2	10.2
3	10.3	10.3	10.3
4	10.4	10.4	10.4
5	10.5	10.5	10.5
6	10.6	10.6	10.6
7	10.7	10.7	10.7
8	10.8	10.8	10.8
9	10.9	10.9	10.9
10	11.0	11.0	11.0
11	11.1	11.1	11.1
12	11.2	11.2	11.2
13	11.3	11.3	11.3
14	11.4	11.4	11.4
15	11.5	11.5	11.5
16	11.6	11.6	11.6
17	11.7	11.7	11.7
18	11.8	11.8	11.8
19	11.9	11.9	11.9
20	12.0	12.0	12.0
21	12.1	12.1	12.1
22	12.2	12.2	12.2
23	12.3	12.3	12.3
24	12.4	12.4	12.4
25	12.5	12.5	12.5
26	12.6	12.6	12.6
27	12.7	12.7	12.7
28	12.8	12.8	12.8
29	12.9	12.9	12.9
30	13.0	13.0	13.0
31	13.1	13.1	13.1
32	13.2	13.2	13.2
33	13.3	13.3	13.3
34	13.4	13.4	13.4
35	13.5	13.5	13.5
36	13.6	13.6	13.6
37	13.7	13.7	13.7
38	13.8	13.8	13.8
39	13.9	13.9	13.9
40	14.0	14.0	14.0
41	14.1	14.1	14.1
42	14.2	14.2	14.2
43	14.3	14.3	14.3
44	14.4	14.4	14.4
45	14.5	14.5	14.5
46	14.6	14.6	14.6
47	14.7	14.7	14.7
48	14.8	14.8	14.8
49	14.9	14.9	14.9
50	15.0	15.0	15.0
51	15.1	15.1	15.1
52	15.2	15.2	15.2
53	15.3	15.3	15.3
54	15.4	15.4	15.4
55	15.5	15.5	15.5
56	15.6	15.6	15.6
57	15.7	15.7	15.7
58	15.8	15.8	15.8
59	15.9	15.9	15.9
60	16.0	16.0	16.0
61	16.1	16.1	16.1
62	16.2	16.2	16.2
63	16.3	16.3	16.3
64	16.4	16.4	16.4
65	16.5	16.5	16.5
66	16.6	16.6	16.6
67	16.7	16.7	16.7
68	16.8	16.8	16.8
69	16.9	16.9	16.9
70	17.0	17.0	17.0
71	17.1	17.1	17.1
72	17.2	17.2	17.2
73	17.3	17.3	17.3
74	17.4	17.4	17.4
75	17.5	17.5	17.5
76	17.6	17.6	17.6
77	17.7	17.7	17.7
78	17.8	17.8	17.8
79	17.9	17.9	17.9
80	18.0	18.0	18.0
81	18.1	18.1	18.1
82	18.2	18.2	18.2
83	18.3	18.3	18.3
84	18.4	18.4	18.4
85	18.5	18.5	18.5
86	18.6	18.6	18.6
87	18.7	18.7	18.7
88	18.8	18.8	18.8
89	18.9	18.9	18.9
90	19.0	19.0	19.0
91	19.1	19.1	19.1
92	19.2	19.2	19.2
93	19.3	19.3	19.3
94	19.4	19.4	19.4
95	19.5	19.5	19.5
96	19.6	19.6	19.6
97	19.7	19.7	19.7
98	19.8	19.8	19.8
99	19.9	19.9	19.9
100	20.0	20.0	20.0

COMPARISON OF FLOCKS BY SIZES

SONOMA COUNTY, CALIFORNIA, POULTRY STUDY
1929

Table 3

	:342 to 947	:1281 to 1882	:2052 to 3008	:3515 to 13535
Number of flock-----	11	14	12	9
Average size of flock-----	753	1,563	2,580	6,862
Eggs per hen-----	154.8	157.6	147.2	129.6
Per cent production-----	42.4	43.1	39.3	35.5
Per cent mortality-----	21.0	21.3	29.3	31.3
Per cent culled-----	50.3	47.1	33.0	37.3
Per cent died and culled---	60.2	63.2	59.5	68.3
Per cent added-----	59.0	71.1	58.0	66.9
Per cent pullets-----	54.0	51.4	49.4	20.4
Floor space per hen-----	3.2	3.0	2.3	2.2
Per cent market eggs-----	96.4	98.0	93.7	93.8
Per cent hatching eggs-----	3.6	2.0	6.3	6.2
Average price market eggs--	31.7¢	31.7¢	32.0¢	32.8¢
Average price hatching eggs	46.0¢	43.0¢	40.7¢	42.8¢
Per cent No. 1 eggs-----	77.5	71.2	75.2	83.3
Per cent No. 2 eggs-----	19.2	23.1	21.0	14.8
Per cent No. 3 eggs-----	3.3	5.7	3.8	1.9
Pounds grain per hen-----	41.9	49.9	48.2	46.0
Pounds mash per hen-----	55.1	41.3	45.3	32.4
Pounds grain and mash per hen	97.0	91.2	93.5	78.4
Cost grain per cwt.-----	\$ 2.21	\$ 2.26	\$ 2.21	\$ 2.20
Cost mash per cwt.-----	2.55	2.64	2.60	2.46
Cost grain & mash per cwt.--	2.40	2.44	2.40	2.31
Av. total investment per hen	\$ 5.17	\$ 4.30	\$ 4.34	\$ 3.22
Per cent of total labor hired	2.4	7.5	12.2	36.4
Feed cost per hen-----	\$ 2.46	\$ 2.28	\$ 2.30	\$ 1.86
Labor cost per hen-----	0.79	0.74	0.64	0.39
Total cost per hen-----	\$ 4.26	\$ 4.02	\$ 3.80	\$ 3.20
Gross income per hen-----	5.24	4.94	4.54	4.00
Net profit per hen-----	0.98	0.92	0.74	0.80
Labor income per hen-----	1.75	1.61	1.30	1.05
Farm income per hen-----	2.06	1.87	1.56	1.24
Total cost per doz.(cents)-	33.0	30.6	30.9	29.6
Gross income " " "	40.6	37.6	37.0	37.0
Net profit " " "	7.6	7.0	6.1	7.4
Labor income " " "	13.6	10.3	10.6	9.7
Farm " " "	16.0	12.2	12.7	17.5
Net profit per flock-----	\$ 733.85	\$ 1,450.93	\$ 1,916.23	\$ 5,502.47
Labor income " "-----	1,316.14	2,528.93	3,360.81	7,185.62
Farm " " "-----	1,550.05	2,932.08	4,032.76	8,506.97

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Examples of data obtained from enterprise-
efficiency studies in California. [1930]

RELATION OF PER CENT PULLETS TO PRODUCTION

SONOMA COUNTY, CALIFORNIA, POULTRY STUDY
1929

Table 4

Flock Number	: Per Cent Pullets	: Eggs per Hen	: Fall Eggs per Hen	: Per Cent Mortality	: Average: Price Market Eggs	: Net Profit Per Hen	: Farm Income Per Hen	: Per Cent Added
3	: 100.0	: 135	: 31.7	: 30.1	: 30.9	: 0.41	: 1.66	: 96.2
17	: 69.9	: 216	: 62.5	: 12.1	: 32.1	: 1.90	: 2.69	: 48.5
7	: 69.1	: 156	: 32.1	: 18.0	: 30.6	: -0.41	: 1.12	: 46.7
6	: 68.7	: 154	: 30.6	: 7.9	: 31.0	: 0.24	: 1.32	: 26.5
27	: 62.2	: 145	: 29.6	: 20.8	: 31.5	: 0.29	: 1.33	: 57.5
54	: 65.1	: 165	: 45.0	: 20.2	: 32.7	: 0.95	: 1.97	: 69.1
62	: 64.2	: 155	: 33.9	: 33.5	: 32.0	: 1.35	: 2.01	: 99.7
84	: 63.0	: 129	: 28.7	: 47.0	: 30.6	: -0.30	: 0.53	: 70.3
75	: 62.4	: 145	: 34.9	: 13.9	: 33.0	: 1.14	: 2.25	: 87.0
83	: 62.1	: 156	: 35.4	: 39.0	: 32.1	: 0.63	: 1.12	: 60.6
26	: 34.1	: 141	: 30.5	: 29.8	: 31.7	: 0.16	: 1.50	: 50.4
39	: 29.5	: 132	: 22.3	: 9.5	: 30.6	: -0.02	: 1.15	: 31.0
43	: 28.7	: 118	: 36.0	: 17.0	: 32.2	: 0.32	: 1.10	: 84.7
29	: 26.0	: 132	: 28.3	: 25.9	: 31.6	: 0.88	: 1.71	: 24.8
77	: 24.8	: 153	: 32.4	: 9.2	: 31.8	: 1.57	: 2.49	: 52.9
59	: 0	: 123	: 22.4	: 28.0	: 33.0	: 0.71	: 1.09	: 82.8
85	: 0	: 128	: 22.6	: 30.2	: 31.2	: 0.74	: 1.05	: 63.6
36	: 0	: 118	: 29.4	: 14.9	: 34.4	: 0.60	: 0.87	: 74.4
79	: 0	: 158	: 32.3	: 29.0	: 30.7	: 0.25	: 0.76	: 0
65	: 0	: 134	: 31.6	: 29.9	: 33.6	: 0.88	: 1.21	: 35.9
High 10---	: 69.1	: 156	: 36.4	: 24.3	: 31.7	: 0.62	: 1.60	: 66.2
Low 10---	: 14.3	: 134	: 28.8	: 22.3	: 32.1	: 0.61	: 1.29	: 50.1

TELEPHONE OF BUREAU: 221 60 111 A 111

THESE VOLUMES ARE AVAILABLE FOR LOAN

[illegible]

RESULTS AND METHOD OF OBTAINING FALL-EGG PRODUCTION

SONOMA COUNTY, CALIFORNIA, POULTRY STUDY 1929

Table 5

Flock Number	: Number : of Fall : Eggs	: Per Cent : of Fall : Eggs	: Price : Marketing : Eggs	: Farm : Income : Per Hen	: Per : Cent : Pullets	: Per : Cent : Culled	: Used : Lights
17	: 62.5	: 31.8	: 32.1 ¢	: \$ 2.69	: 69.9	: 30.1	: Yes
74	: 52.4	: 32.4	: 32.6	: 2.34	: 45.6	: 13.6	: Yes
10	: 45.4	: 25.0	: 33.0	: 2.51	: 56.9	: 40.5	: Yes
86	: 45.2	: 26.2	: 32.6	: 2.69	: 58.1	: 80.0	: Yes
54	: 45.0	: 27.2	: 32.7	: 1.97	: 65.1	: 72.8	: Yes
42	: 43.6	: 23.0	: 31.1	: 2.67	: 54.1	: 63.3	: Yes
23	: 40.5	: 24.5	: 34.8	: 2.65	: 39.5	: 28.4	: No
4	: 38.9	: 23.1	: 31.9	: 2.56	: 46.6	: 0	: Yes
76	: 38.6	: 24.2	: 31.7	: 1.70	: 50.7	: 20.1	: Yes
58	: 38.6	: 22.8	: 31.2	: 1.65	: 51.6	: 41.0	: Yes
84	: 28.7	: 22.3	: 30.6	: 0.53	: 63.0	: 25.5	: Yes
29	: 28.3	: 21.4	: 31.6	: 1.71	: 26.0	: 17.5	: Yes
59	: 27.6	: 22.4	: 33.0	: 1.09	: 0	: 42.9	: Yes
45	: 27.3	: 20.2	: 31.6	: 1.38	: 52.5	: 30.5	: Yes
28	: 26.4	: 20.2	: 30.0	: 1.57	: 32.0	: 63.3	: Yes
19	: 25.3	: 18.5	: 30.1	: 1.63	: 48.1	: 50.2	: Yes
48	: 22.7	: 16.1	: 30.7	: 1.80	: 58.6	: 36.8	: Yes
85	: 22.6	: 17.7	: 31.2	: 1.05	: 0	: 47.4	: Yes
39	: 22.3	: 16.9	: 30.6	: 1.15	: 29.5	: 18.9	: Yes
81	: 22.1	: 18.4	: 20.9	: 1.31	: 35.4	: 27.6	: Yes
High 10--	: 45.1	: 26.0	: 32.4	: 2.34	: 53.8	: 39.0	: 90%
Low 10---	: 25.3	: 19.4	: 31.0	: 1.32	: 35.6	: 36.1	: 100%

SONOMA COUNTY, CALIFORNIA, POULTRY STUDY
1929

Table 6 Time of Year Pullets are Added

	: All	:
	: Year	: Fall
Number of flocks-----	: 15	: 21
Eggs per hen-----	: 144	: 159
Fall eggs-----	: 32.4	: 25.8
Per cent fall eggs-----	: 22.5	: 22.5
Average egg price (market)-----	: 31.8¢	: 31.8¢
Per cent No. 1 eggs-----	: 72.9	: 77.4
Per cent hatching eggs-----	: 7.9	: 4.0
Per cent mortality-----	: 31.8	: 22.4
Farm income per hen-----	: \$ 1.66	: \$ 2.00

Table 7 Effect of Use of Lights

	: Not Using	:
	: Lights	: Using
	:	: Lights
Number of flocks-----	: 5	: 39
Eggs per hen-----	: 156	: 149
Fall eggs per hen-----	: 33.6	: 34.0
Per cent fall eggs-----	: 21.5	: 22.8
Per cent mortality-----	: 17.4	: 26.2
Farm income per hen-----	: \$ 2.36	: \$ 1.66

LABOR COSTS PER ACRE
Mature Pear Orchards
Crop Year 1929

MENDOCINO COUNTY, CALIFORNIA, PEAR STUDY

Table 8

	: Low	: High	: All	: Your
	: Yield	: Yield	: Orchards	: Record
Pruning-----	: \$17.81	: \$22.54	: \$20.03	: \$
Brush disposal-----	: 2.22	: 3.15	: 2.55	:
Cover crop-----	:	: 1.71	: 1.71	:
Fertilizer-----	: 2.50	: 7.25	: 5.85	:
Blight control-----	: 10.83	: 16.16	: 13.80	:
Drainage-----	:	: 2.50	: 2.50	:
Dormant spray-----	: 3.22	: 2.52	: 2.85	:
Other sprays-----	: 17.05	: 12.07	: 14.71	:
Irrigation prep.-----	: 3.00	:	: 3.00	:
Irrigation-----	: 3.43	: 6.28	: 5.17	:
Plowing-----	: 5.94	: 4.61	: 4.95	:
Cultivation-----	: 14.96	: 13.90	: 14.46	:
Bracing, propping-----	:	: .68	: .68	:
Picking-----	: 20.09	: 42.76	: 30.72	:
Hauling-----	: 5.64	: 13.89	: 9.51	:
Miscellaneous-----	:	: .42	: .42	:
Average total-----	: 92.37	: 140.92	: 115.00	:

Note:-- Tables 8 to 14 are taken from the fourth annual report of the Mendocino County pear enterprise-efficiency studies -- 1929 crop year.

COMPARISON OF PRUNING METHODS AND LABOR COSTS

MENDOCINO COUNTY, CALIFORNIA, PEAR STUDY

Table 9

Serial No.	Age	Tons Per Acre	Method of Pruning	Labor by	Pruning Cost Per Acre	Pruning Per Tree Yr.
8a	38	19	Mod. Long	Contract	\$ 37.50	\$ 1.00
6	41	15.7	" "	"	32.66	.80
1	18	5.5	Short	"	22.50	1.25
3	14	2.2	Mod. Long	"	18.03	1.29
36	37	1.5	" "	"	20.83	.56
2	8	2.0	" "	"	8.93	1.12
14	15	7.55	Mod. Long	Day Labor	16.33	1.09
34	18	7.03	" "	" "	20.00	1.11
8	14	6.90	" "	" "	20.98	1.43
15	12	5.55	" "	" "	17.65	1.48
35	29	4.27	" "	" "	14.00	.48
11	28	4.22	" "	" "	18.40	.66
13	9	4.67	" "	" "	14.64	1.63
26	9	4.24	" "	" "	11.34	1.26
4	9	2.16	" "	" "	13.25	1.47
29	8	1.47	" "	" "	13.47	1.68
8b	7	.72	" "	" "	5.85	.83
17	14	8.54	" "	Owner	16.81	1.20
5	6	1.66	" "	"	4.66	.78
6	29	5.7	Mod. Long	Contract	20.08	.69
11	13	4.2	Mod. Long	Day Labor	14.30	1.10
2	9	4.2	Mod. Long	Owner	9.12	1.01

[illegible]

COMPARISON OF COSTS OF BRUSH DISPOSAL
MENDOCINO COUNTY, CALIFORNIA, PEAR STUDY

Table 10

Serial No.	Age	Tons Fruit Per Acre	Method - Brush Disposal	Brush Disposal Per Acre	Brush Disposal Per Tree Yr.
8a	38	19.0	Rake or pile and haul out	4.50	.12
1	18	5.5	"	1.75	.10
2	8	2.0	"	2.15	.27
36	37	1.5	"	3.33	.09
15	12	5.5	"	1.18	.10
11	28	4.2	"	.86	.03
6	41	15.7	Pile and burn in orchard	1.73	.04
34	18	7.0	"	3.79	.21
35	29	4.3	"	3.43	.12
3	14	2.2	"	2.37	.17
17	14	8.5	Portable brush burner	1.37	.10
14	15	7.6	"	3.60	.24
8	14	6.9	"	1.50	.11
13	9	4.7	"	1.86	.21
26	9	4.2	"	1.80	.20
4	9	2.2	"	2.18	.24
29	8	1.5	"	1.17	.15
5	6	1.7	"	1.33	.08
8b	7	.7	"	.50	.07
6r	20	4.9	Rake or pile and haul out	2.01	.10
4r	23	5.7	Pile and burn in orchard	2.72	.12
9r	10	3.9	Portable brush burner	1.65	.17

COMPARISON OF CULTIVATION PRACTICES AND COSTS

MENDOCINO COUNTY, CALIFORNIA, PEAR STUDY

Table 11

Serial No.	Age	Yield		Plowing		Other		Times Over Soil				
		Tons		Cost		Cultiv.						
		Per Acre	Per Acre	Per Acre	Per Acre	Per Acre	Per Acre	Plow	Disk	Harrow	Other	Total
8a	38	19	4.73	5.00	1	2	1					4
6	41	15.72	5.63	16.87	1	2						3
17	14	8.54	3.43	14.03	1	1	1			4		7
14	15	7.55	4.25	24.21	1	3					5	9
34	18	7.03	6.34	6.67	1	1					8	10
8	14	6.90	4.10	10.45	1	2	2				1	6
15	12	5.55	-----	12.47		3					6	9
1	18	5.5	-----	21.87		8					2	10
13	9	4.67	2.86	5.98	1	2					1	4
35	29	4.27	6.00	21.20	1	4	4					9
26	9	4.24	3.13	3.75	1	4					2	7
11	28	4.22	-----	7.50		4	2				1	7
3	14	2.18	-----	12.05		6					2	8
4	9	2.16	2.44	7.04	1	4						5
2	8	2.01	3.32	5.54	1	5	2					8
5	6	1.66	2.67	11.25	1	2					4	7
36	37	1.50	5.33	23.49	1	2	1				4	8
29	8	1.47	3.50	13.53	1	4	1					6
8b	7	.72	1.90	4.81	1	2	2				1	6

COMPARISON OF IRRIGATION METHODS AND COSTS

MENDOCINO COUNTY, CALIFORNIA, PEAR STUDY

Table 12

Serial No.	Age Trees	Yield Tons Per Acre	Number of Irrigations	Method	Labor Cost Per Acre	Water Cost Per Acre	Total Cost Per Irrigation
8a	38	19.0	1	Furrow	9.01	8.00	17.01
6	41	15.7	5	Furrow	6.50	6.72	12.65
17	14	8.5	3	Furrow	20.57	5.48	8.70
14	15	7.6	1 $\frac{1}{2}$	Furrow	2.25	4.50	4.50
8	14	6.9	1	Furrow	5.58	5.85	11.43
15	12	5.6	2	Furrow & Ch.	6.82	10.94	8.89
1	18	5.5	2		3.00	6.00	4.50
13	9	4.7	1	Contour Ch.	3.46	3.98	7.44
26	9	4.2	2		2.25	1.88	2.07
11	28	4.2	2	Basin	1.50	2.00	1.75
35	29	4.3	1	Basin	2.62	6.25	8.87
3	14	2.2	1	Furrow	3.70	7.06	10.76
29	8	1.5	1	Furrow	3.29	.82	4.11
13	17	5.7	2 av.	Furrow	4.23	5.05	4.64
6	11	1.9	None	-----	----	----	----

COMPARISON OF SPRAYING APPLICATIONS AND COSTS

MENDOCINO COUNTY, CALIFORNIA, PEAR STUDY

Table 13

		Yield	Per	Spraying		Number of Sprays					
		Tons	Cent	No.	Cost						
Serial	Age	Per	l & 2	Per	Dor-	Scab	Scab	and	Cod.	Red	Total
No.	Trees	Acre	Fruit	Acre	mant			CM	Moth	Spider	
8a	38	19.0	63.0	33.45	1	2	1	2			6
6	41	15.7	89.0	42.14	1	2		2			6
17	14	8.5	89.0	13.98	1	4	2				7
14	15	7.6	93.0	23.33	1	1	1	2			5
34	18	7.0	81.6	36.89	1	1	1	2			5
8	14	6.9	93.0	22.85	1	2	1	2			6
15	12	5.6	93.0	26.80	1	1	2				4
1	18	5.5	81.8	43.73	1	1	1	2			5
35	29	4.3	67.0	27.92		2	2	1			5
11	28	4.2	78.2	25.03	1	2 $\frac{1}{2}$	3	1			7 $\frac{1}{2}$
3	14	2.2	85.0	44.93	1		1	1			3
36	37	1.5	78.0	44.45	1	4	1	1			7
13	9	4.7	94.4	27.99	1	1	2				4
26	9	4.2	85.0	11.85		2	3				5
4	9	2.2	89.3	14.83	1	1		2			4
2	8	2.0	91.0	15.15	1		2				3
29	8	1.5	97.0	8.76	1	2	2	1			6
8b	7	.7	96.0	5.79	1	1		2			4
5	6	1.7	70.0	17.06	1	2	2	1	1		7

COMPARISON OF DIFFERENT HARVESTING METHODS AND COSTS

MENDOCINO COUNTY, CALIFORNIA, PEAR STUDY

Table 14

Serial No.	Age Trees	Yield Tons Per Acre	Per Cent 1 & 2 Fruit	Times Picked Over	Picking Cost Per Ton	Labor by
8a	38	19.0	63.0	4	4.83	Day Labor
6	41	15.7	89.0	3	4.72	Day Labor
17	14	8.5	89.0	4	2.02	Day Labor
14	15	7.6	93.0	3	5.12	Day Labor
34	18	7.0	81.6	2	4.12	Day Labor
8	14	6.9	93.0	4	4.55	Day Labor
15	12	5.6	93.0	2	4.68	Day Labor
1	18	5.5	81.8	3	4.00	Day Labor
35	29	4.3	67.0	5	6.35	Day Labor
11	28	4.2	78.2	2 & 4	4.59	Day Labor
3	14	2.2	85.0	3	8.01	Day Labor
36	37	1.5	78.0	2	4.17	Day Labor
13	9	4.7	74.4	3	4.75	Day Labor
26	9	4.2	85.0	3	3.65	Day Labor
4	9	2.2	89.3	3	8.02	Owner
2	8	2.0	91.0	3	6.48	Day Labor
29	8	1.5	97.0	2	3.62	Day Labor
8b	7	.7	96.0	1	2.17	Day Labor
5	6	1.7	70.0	3	6.35	Owner

SUMMARY

MENDOCINO COUNTY, CALIFORNIA, PEAR STUDY

Crop Year 1929

1. As brought out in this study, the most important single factor in securing profitable returns from pear growing is a high yield per acre. An increase in production of 264 per cent for the high producing orchards over the low bearing group showed a net increase in returns of 1,077 per cent.

2. A preliminary study of the past three years' records shows that with pears selling at \$30 per ton orchards will not come into profitable production until approximately 10 years of age. Due to the probably lower prices for pears in the future, young plantings as well as low producing orchards are more apt to show losses than profits.

3. This study should reassure those growers having plantings situated on good soils capable of producing a yield of nine tons per acre or better as the costs can be kept below \$30 per ton.

4. This year's study witnesses a substantial decrease in cost per acre over previous years in certain items not affecting yields. However, opportunity still exists for decreasing costs particularly in cultivation. On the other hand, certain increased expenditures are justified for operations which directly affect the yield such as fertilizers and irrigation. This fact is borne out in the preceding tables for the high producing orchards which employed these practices.

5. The unfavorable price outlook as shown in the first two charts of the pear study does not warrant further expansion of pear plantings.

COMPARISON OF APRICOT VARIETIES

Tilttons and Blenheims

STANISLAUS COUNTY, CALIFORNIA, APRICOT STUDY

Table 15

	: Average : of : Tilttons	: Average : of : Blenheims
Number of records-----	: 9	: 5
Total acres-----	: 120.5	: 17.167
Average age of trees-----	: 7	: 9
Yield per acre-----	: 9.7	: 4.4
Labor cost per acre-----	: \$ 200.33	: \$ 104.08
Material cost per acre-----	: 18.78	: 17.07
Overhead cost per acre-----	: 80.64	: 78.80
Total cost per acre-----	: 299.75	: 199.95
Total income per acre-----	: 656.62	: 266.36
Net profit per acre-----	: 356.87	: 66.41
Labor cost per ton-----	: 20.66	: 23.67
Material cost per ton-----	: 1.94	: 3.88
Overhead cost per ton-----	: 8.31	: 17.93
Total cost per ton-----	: 30.91	: 45.48
Total income per ton-----	: 67.70	: 60.59
Net profit per ton-----	: 36.79	: 15.11
Per cent acres heating-----	: 63	: 14

Note:- Tables 15 and 16 are taken from the summary of the apricot efficiency study for Stanislaus County -- 1927-1928-1929.

COMPARISON OF ORCHARDS PRACTICING HEATING WITH THOSE NOT HEATING
STANISLAUS COUNTY, CALIFORNIA, APRICOT STUDY

Table 16

	Orchards Heating	Orchards Not Heating
Number of records-----	8	7
Total Acres-----	97.5	60.5
Yield per acre (tons)-----	11.1	5.5
Labor cost per acre-----	\$ 206.02	\$ 170.28
Material cost per acre-----	22.42	14.10
Overhead cost per acre-----	220.83	78.99
Total cost per acre-----	449.27	263.37
Returns per acre-----	749.21	303.37
Net profit per acre-----	300.24	40.00
Labor cost per ton-----	18.56	30.95
Material cost per ton-----	2.02	2.56
Overhead cost per ton-----	19.89	14.36
Total cost per ton-----	40.47	47.87
Returns per ton-----	67.52	55.14
Net profit per ton-----	27.07	7.27
Heating labor cost per acre-----	4.95	-----
Heating material cost per acre-----	12.18	-----
Heating total cost per acre-----	17.13	-----
Heating labor cost per ton-----	.45	-----
Heating material cost per ton-----	1.10	-----
Heating total cost per ton-----	1.55	-----

